

Impact of Digitalization in Modern Education A Great Change in Teaching- Learning

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Abstract—Digital education is a way of providing education by technology. Digital education helps to enhance our thinking and brings changes in standard of students. The integration of digital methods in education motivates learners, encourages them and provides an environment which is favorable for learning. Our university DEI has also a great opportunity to digital leapfrogging the process in education that other universities have done. Recently it is found that young generations of our university are thirsting for digitalization. Though students are quality educated and are skilled in various activities but still they are not able to compete with foreign universities. So if our university will also become digital the work load will be reduced and students will not have any problem to fight with this digital era.

Keywords—Digitalization, quality education, rural area

INTRODUCTION

The arrival of technology has changed and transformed the mode of our lives in all aspects. People can learn from distant colleges without having to present there. Unlike, in traditional schools the learning of students' was only restricted to the school context, whereas today in most schools students are provided with various contexts of learning through digital technologies which facilitate them to communicate with their friends, teachers and people from various countries. The role of teacher is changing from simply distributing knowledge to heeding the comprehensive feedback and high quality assessments of the students. The CEO of the International Society for Technology in Education, Don Knezek compares medical profession without tools to the education without technology. He said, "If in 1970 you were to have a knee surgery, you would have developed a huge scar". "Now, all it's going to give you is two little dots." [1]

Educational technology is the study and ethical practice of facilitating e-learning, which is the learning and improving performance by creating, using and managing appropriate technological processes and resources. [2] Western countries have introduced technology in teaching and learning by providing funds to education sector. Respective governments of some countries can benefit from effective use of technology in education by helping children in removing the hindrances that appear in schools. "Our goal is to stimulate far higher levels of

agile student engagement, where mastery over a concept is obtained by sharing, problem-solving and building, rather than by non-interactive listening. This classroom enables both active engagement and equal access" by lead researcher, Liz Burdon Britain's Durham University (2012). [3] Since 1971 Education technology unit was started in the Ministry and during the year 1973 a CET in the NCERT was also set-up and from 1972.73 onwards the Education Technology Cells came into different states. [4]

LITERATURE REVIEW

Printing press changed the world of education, forever. In ancient days the education was imparted orally by the scholars and through this way only the information was passed on from one generation to another generation. After the letters came into existence, people started using palm leaves and the bark of trees. And now people are moving towards interactive white boards. According to a study by Gloger and Miller, the impact of technology is one important part in secondary schools. [5] A study by Majid & Najmeh, reveals that digitalization in education has many advantages which includes enhancement of skills, increment in students attention in class, promotion and team working and etc. [6] Cuthell concluded from a study that whiteboards has not only change the way in which teachers perceive their learners but it has also created a positive shift in the ecology of colleges. [7]

OBJECTIVES

This study was contemplated to investigate the pros and cons of digitalization as a tool of modernization in education and examine the role of digitalization in classrooms.

METHODOLOGY

A study was conducted on young generation between the age group of 18-25 years to see the need of digitalization. A questionnaire of about 12 questions was designed and students were asked to fill and give their opinions. Different views of youngsters came on the same. All the answers were thoroughly read and then were divided in different groups. After this they were analyzed statistically. This study helped us to know that youngsters are thirsting for the digitalization as they say that education should not be restricted within the walls of classroom and should not be the board and chalk affair.

Research Questions

- What is the role of digital education in classrooms?
- To what extent students engage in the process of learning when teachers teach through digital board?
- How do students behave when classes are going on?

Table 1: Shows effect before and after digitalization.

Particular	2014	2015
Pleasurable Learning	57%	71%
Opportunities of Learning Outside Class	35%	69%
Allow Student to Work at Their Pace	22%	56%
Working and Learning Experience	24%	65%
Helps Slow Student to Catch Up	36%	66%
Helps Student During Off Days	28%	52%

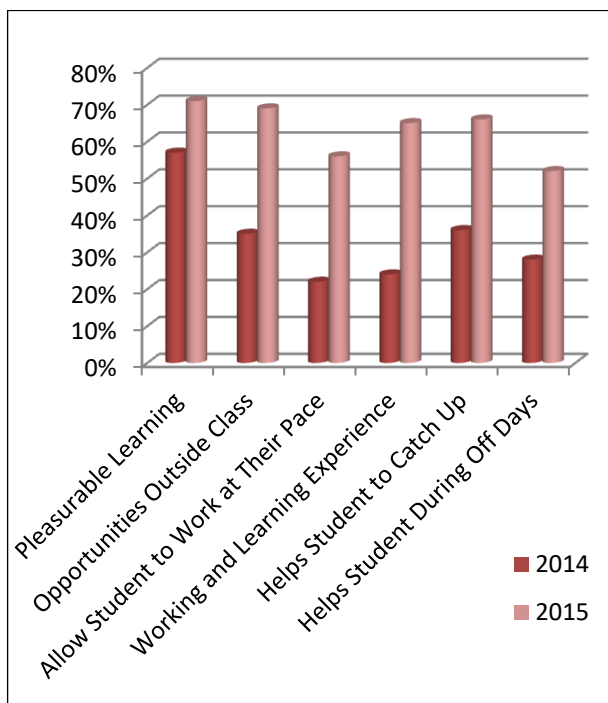


Fig. 1: Shows effect before and after digitalization.

In table 1, research was conducted for two years in which 2014 was based on traditional education and in 2015, digitalization was introduced in the education and it clearly shows that digitalization improves the overall efficiency of teacher and student in education which we don't get to see in traditional education. Table also shows that role of digitalization has broaden in modern world.

RESULTS AND DISCUSSION

The overall study which was conducted showed that students were enthusiastic and wanted to participate in

the group discussions through digital education. It was also observed that majority of students were actively participating and were enjoying in the lecture through digital modes. Students properly concentrated more on colors, sound, and images instead of paying attention to what the teacher was explaining. In students opinion digital and smart class were a playful tool which easily helped them to understand the topic and retain that in their minds. Students were not only able to hear the lectures but were also able to visualize that. Students were to motivate to ask their doubts and participate in class. Learners were found less disruptive and seemed to enjoy the boring lectures. This also helped the students and made them confident to participate and make presentations for seminars. Students were not only able to hear the lectures but were also able to visualize that. Students were to motivate to ask their doubts and participate in class. Learners were found less disruptive and seemed to enjoy the boring lectures. This also helped the students and made them confident to participate and make presentations for seminars.

CONCLUSION

From the above research it was concluded that digitalization of teaching has its own pros and cons. On one hand providing education digitally is fun. Audio and video supplements add enthusiasm for students to learn. Even the teaching staff feels that digital method is enthusiastic than that of chalk and board. Another view is that digital education is useful resource of teaching for both teachers and students in terms of knowledge and skills. But on other hand, it also has its own adverse effects. Digitalization in education does not help in recalling in future. Excess use of technology makes human mind dumb. Many students do not prefer digital education because of lack of knowledge in technology.

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QUESTIONNAIRE ON DIGITAL EDUCATION

NAME: _____

CLASS: _____

AGE: _____

EMAIL: _____

S.NO.	PARTICULARS	AGREE	STRONGLY AGREE	DIS-AGREE	STRONGLY DISAGREE
1.	USE OF DIGITALISATION IN EDUCATION HELPS IN MAKING COURSE INTERESTING.				
2.	STUDENTS ARE EXCITED TO LEARN NEW THINGS DIGITALLY.				
3.	THE WAY OF TEACHING DIGITALLY REDUCES THE BURDEN FOR TEACHERS.				
4.	GAINING KNOWLEDGE THROUGH DIGITAL MODES IS USEFUL TO RECALL IN FUTURE.				
5.	THE METHOD OF CHALK AND DUSTER IS BORING.				
6.	STUDENTS ENJOY DIGITAL MODE IN COMPLETING THE SYLLABUS EASILY ON TIME.				
7.	STUDENTS ENJOY ADVANCING THEIR KNOWLEDGE DIGITALLY.				
8.	DIGITAL EDUCATION WOULD PROVIDE GREAT PRACTICAL KNOWLEDGE.				
9.	PERFORMANCE OF TEACHERS BECOMES BETTER THROUGH SUPPLEMENTS OF AUDIO VISUAL.				
10.	SUBJECT MATTER APPEARS INTERESTING TO STUDENTS.				
11.	DIGITAL INFORMATION IS HELPFUL IN OTHER COURSES ALSO.				
12.	DIGITAL EDUCATION WOULD HELP IN EXPLORING OTHER PURPOSES OF LIFE ALSO. (LIKE: JOBS)				